

NOUS41 KWBC 281600  
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 08-87  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
1205 PM EDT TUE OCT 28 2008

TO: SUBSCRIBERS:  
-FAMILY OF SERVICES  
-NOAAPORT  
OTHER NWS PARTNERS...USERS AND EMPLOYEES

FROM: JASON TUELL  
CHIEF...SCIENCE PLANS BRANCH  
OFFICE OF SCIENCE AND TECHNOLOGY

SUBJECT: ADDITION OF NCEP NAM-BASED CONUS-AREA DNG GRIDS  
TO NOAAPORT: EFFECTIVE DECEMBER 2 2008

EFFECTIVE TUESDAY DECEMBER 2 2008...WITH THE 1200 COORDINATED  
UNIVERSAL TIME /UTC/ DISTRIBUTION...NEW NATIONAL CENTERS FOR  
ENVIRONMENTAL PREDICTION /NCEP/ DOWNSCALED NUMERICAL GUIDANCE /DNG/  
PRODUCTS...BASED ON THE NORTH AMERICAN MESOSCALE /NAM/ MODEL...WILL  
BE ADDED TO THE NOAAPORT TG2 CHANNEL. THESE NEW PRODUCTS CONSIST OF A  
SET OF SENSIBLE HYDROMETEOROLOGICAL PARAMETERS. THE PRODUCTS COVER  
THE CONUS AREA...ON A 5 KILOMETER HORIZONTAL RESOLUTION  
GRID...DISSEMINATED IN GRIB2 FORMAT.

THE EFFECTIVE DATE OF THIS CHANGE IS SOONER THAN SPECIFIED BY NWS  
POLICY /NWS INSTRUCTION 10-1805/. THE SHORTER ADVANCE LEAD TIME WAS  
DRIVEN BY CRITICAL OPERATIONAL REQUIREMENTS FOR FIELD FORECASTERS.  
WAIVER OF THE NORMAL ADVANCE LEAD TIME WAS APPROVED IN ORDER TO  
COMMENCE NWS FIELD EVALUATIONS OF THIS PRODUCT.

THE DNG PRODUCT SET CONSISTS OF SEVERAL SENSIBLE HYDROMETEOROLOGICAL  
ELEMENTS AT 3 HOUR FORECAST INTERVALS FROM  
00 TO 84 HOURS. THERE WILL BE FOUR PRODUCT DISTRIBUTIONS PER DAY  
CORRESPONDING TO THE 00...06...12 AND 18 UTC NAM MODEL RUNS.

THE DNG HYDROMETEOROLOGICAL ELEMENTS ARE:

- SURFACE TEMPERATURE AND DEW POINT TEMPERATURE
- 3 AND 12 HOUR MAXIMUM AND MINIMUM TEMPERATURE
- 3 AND 12-HOUR MAXIMUM AND MINIMUM RELATIVE HUMIDITY
- TRANSPORT WIND SPEED AND DIRECTION...AND WIND GUST SPEED
- U AND V COMPONENTS OF SURFACE WIND
- CLOUD COVER
- 3...6...AND 12 HOUR PROBABILITY OF PRECIPITATION
- 3...6...AND 12 HOUR QUANTITATIVE PRECIPITATION FORECAST
- 3 AND 6 HOUR SNOWFALL DEPTH
- WET BULB ZERO HEIGHT /SNOW LEVEL HEIGHT/
- PLANETARY BOUNDARY LAYER HEIGHT /MIXING HEIGHT/
- VISIBILITY

THE PER CYCLE DATA VOLUME WILL BE APPROXIMATELY 139 MEGABYTES /MB/ OR APPROXIMATELY 556 MB PER DAY.

THE WMO HEADINGS FOR THESE PRODUCTS WILL BE OF THE GENERAL FORM:

T1: DATA FORMAT OF GRIB2 /L OR M/  
T2: PARAMETER CODE /ONE OF ADEHKRSTUVX/  
A1: GRID CODE /M FOR CONUS/  
A2: FORECAST TIME /ONE OF ABCDEFGHIJKL FOR T1=L OR  
BEHKLMNOPQRSTZ FOR T1=M/  
II: LAYER OR LEVEL /98 FOR SURFACE OR  
86 FOR HEIGHT OF BOUNDARY LAYER OR  
00 HEIGHT WHERE WET BULB TEMPERATURE  
IS ZERO/  
CCCC: KWBE

FOR A COMPLETE LISTING OF ALL DNG WMO HEADINGS...PLEASE REFER TO THE FOLLOWING WEB PAGE /USE LOWER CASE LETTERS/:

[HTTP://WWW.WEATHER.GOV/OS/NOTIFICATION/RESOURCES/DNG\\_WMO.PDF](http://www.weather.gov/os/notification/resources/dng_wmo.pdf)

FOR QUESTIONS CONCERNING THE TECHNICAL DETAILS OF THESE PRODUCTS...PLEASE CONTACT:

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OR  
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FOR QUESTIONS CONCERNING THE NOAAPORT ACTIVATION AND DISSEMINATION OF THESE PRODUCTS...PLEASE CONTACT:

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TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWER CASE LETTERS/:

[HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM](http://www.weather.gov/os/notif.htm)

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